

Amendments to the Specification:

Please add a new paragraph [0028.1] after paragraph [0028]:

[0028.1] **FIG. 5** shows, by way of example, a structure of an optical component according to the invention.

Please replace paragraph [0051] with the following amended paragraph:

[0051] The basic structure of the non-linear optical component according to the invention may, in principle, comprise a single carbon nanotube. An embodiment of the optical component (1) as shown in FIG. 5, comprising substrate (2), carbon nanotube layer (3) having a number of photoluminescent carbon nanotubes (10) and any intermediate layer (4) is, however, preferred. It may be produced by known methods, preferably by deposition from the gaseous phase by a microwave plasma. The optical signal processing device (5) includes a laser diode or other suitable source (6) of electromagnetic radiation (7) and means of detecting (8) electromagnetic radiation (9) which means of detecting

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(8) can serve as, for example, a photonic component, sensor
or optical switch.